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## (WO/2003/019136) METHODS FOR INHIBITING ANGIOGENESIS

Biblio. Data	Description	Claims	National Phase	Notices	Documents
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Latest bibliographic data on file with the International Bureau

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Pub. No.: WO/2003/019136 International Application No.: PCT/US2002/024573

Publication Date: 06.03.2003

International Filing Date: 01.08.2002

Chapter 2 Demand Filed: 26.02.2003

IPC: A61K 38/39 (2006.01), C07K 16/18 (2006.01), C07K 16/28 (2006.01), G01N 33/50 (2006.01)

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Priority Data: 60/310,645 06.08.2001 US

Title: METHODS FOR INHIBITING ANGIOGENESIS

**Abstract:** The invention provides methods for detecting and inhibiting angiogenesis, endothelial cell adhesion, and endothelial cell migration using agents which inhibit the specific binding of integrin  $\alpha_5\beta_1$  to one or more of its ligands. The invention further provides methods for screening test compounds for their ability to inhibit angiogenesis, endothelial cell adhesion, or endothelial cell migration by employing agents which inhibit the specific binding of integrin  $\alpha_5\beta_1$  to one or more of its ligands. The invention additionally relates to methods for isolating endothelial progenitor cells which express integrin  $\alpha_5\beta_1$ . The methods of the invention are useful in, for example, diagnosing and inhibiting pathological conditions that are associated with angiogenesis, endothelial cell adhesion, and/or endothelial cell migration. The invention's methods are also useful in isolating endothelial progenitor cells, and in determining the mechanisms that underlie angiogenesis, development, wound healing, and the function of the female reproductive system.

**Designated States:** AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.  
 African Regional Intellectual Property Org. (ARIPO) (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW)  
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 African Intellectual Property Organization (OAPI) (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Publication Language:

English (EN)

Filing Language:

English (EN)